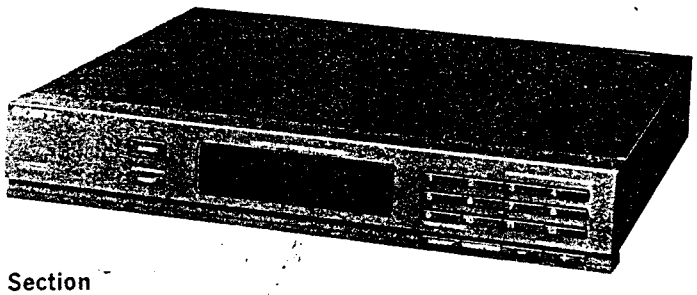
ST-D50L

SERVICE MANUAL

AEP Model
UK Model



This Set The Tuner Section In XO-D50

SPECIFICATIONS

Tuner section

System — MF stereo, FM/AM Superheterodyne tuner

FM tuner section

Tuning range — 87.5 to 108 MHz

Antenna terminals — 75 ohms unbalanced

MW/LW tuner section

	MW	LW
Tuning range	522 to 1,611 kHz (Italian model) 531 to 1,602 kHz (Other European countries)	144 to 288 kHz (Italian model) 153 to 281 kHz (Other European countries)
Anienna	AM Loop antenna, External antenna terminal	
Intermediate frequency	450 kHz	

Dimensions — Approx. 355×70×310 mm (Wh/d) ($14\times2^{11}/_{16}\times12^{1}/_{4}$ inches) Iricl. projecting parts and contiols

Weight — Apprtx. 1.9 kg (4 ld 3 oz)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MICROFILM

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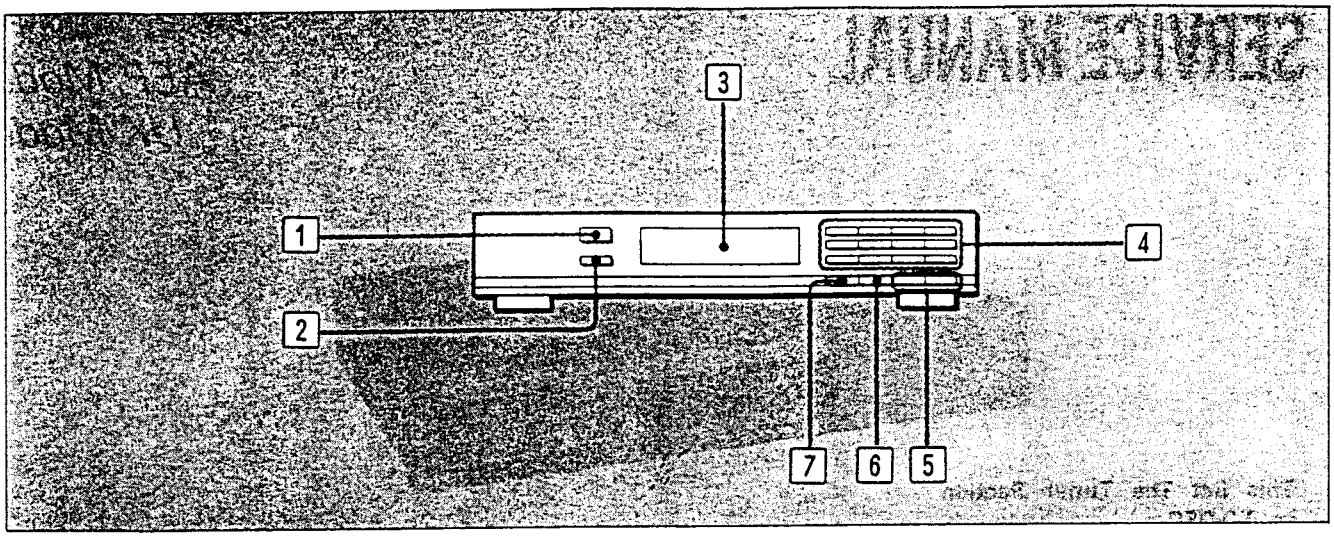
FM STEREO/FM/MW/LW TUNER

SONY®

SECTION 1
GENERAL

1-1. PARTS IDENTIFICATION



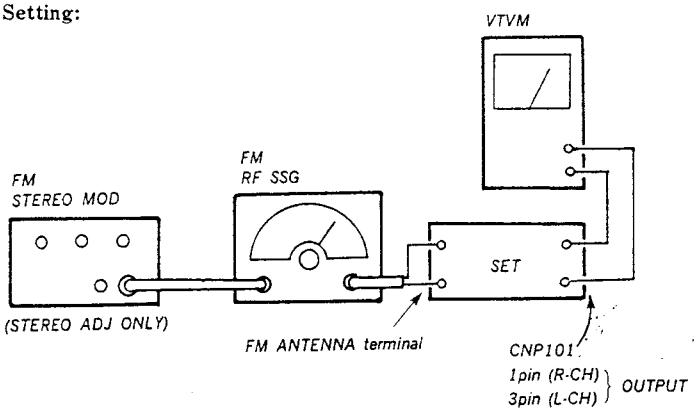
1 BAND selector
ST-D50L: FM, MW, LW
ST-D50S: FM, MW, SW1, SW2
2 AUTO/MANUAL mode selector
3 Band/frequency display
4 PRESET buttons
5 TUNING +/– buttons (station selector)
6 MEMORY SCAN button
7 MEMORY button

SECTION 2
ELECTRICAL ADJUSTMENTS

- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

2-1. FM SECTION ADJUSTMENT

Setting:



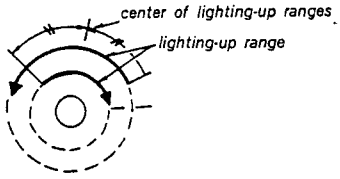
Carrier frequency	: 98MHz
Modulation	: 1kHz
Deviation	: 40kHz (MONO only)
Output level	: 66dBμ (at NULL/STEREO Adjustment)
	: 25dBμ (at TUNED Adjustment)
Stereo MOD setting	
Sub channel	: 38kHz
Deviation	: 16.25kHz
Pilot signal	: 19kHz
Deviation	: 7.5kHz
Modulation	: 1kHz—16.25kHz deviation

1. Discriminator Alignment (NULL check)

1. Push the TUNING (+, −) button for 98MHz.
2. Adjust T251 for 0V reading on the VTVM.
   test point ≒ TP101

2. Tuned Lighting-on Adjustment

1. Puch the TUNING (+, −) button for 98MHz.
2. Tune RV103 clockwise or counterclockwise and memorize the lighting-up range of tuned indicator.
3. Adjust RV103 at the center of the lighting-up range of both turns as shown below.



3. Stereo Separation Adjustment

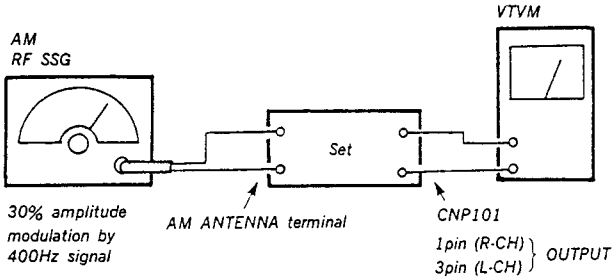
FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV101 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV101 for minimum reading.

L-CH Stereo separation : Ⓐ—Ⓑ
R-CH Stereo separation : Ⓒ—Ⓓ

The separation of both channels should be equal.
Specification : 35dB

2-2. AM SECTION ADJUSTMENTS

Setting:



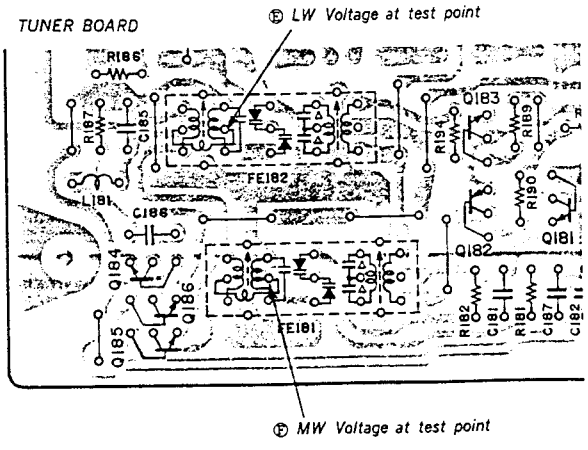
1. LW Frequency Coverage Adjustment

Frequency display in set	AEP, UK, WG model	153kHz	281kHz
	IT model	144kHz	288kHz
Adjustment part		FE182(OSC)	
Voltage at test point		VT Ⓔ 1V±0.2V	

2. MW Frequency Coverage Adjustment

Frequency display in set	AEP, UK, WG model	531kHz	1602kHz
	IT model	522kHz	1611kHz
Adjustment part		FE181(OSC)	
Voltage test point		VT Ⓕ ①V±0.2V	

Adjustment Location:



3. LW Tracking Adjustment

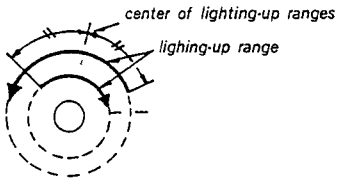
Frequency display in set	AEP, UK, WG model	153kHz
	IT model	144kHz
Adjustment part	FE182 (ANT)	
Adjustment for a maximum reading on VTVM.		

4. MW Tracking Adjustment

Frequency display in set	AEP, UK, WG model	531kHz
	IT model	522kHz
Adjustment part	FE181 (ANT)	
Adjust for a maximum reading on VTVM.		

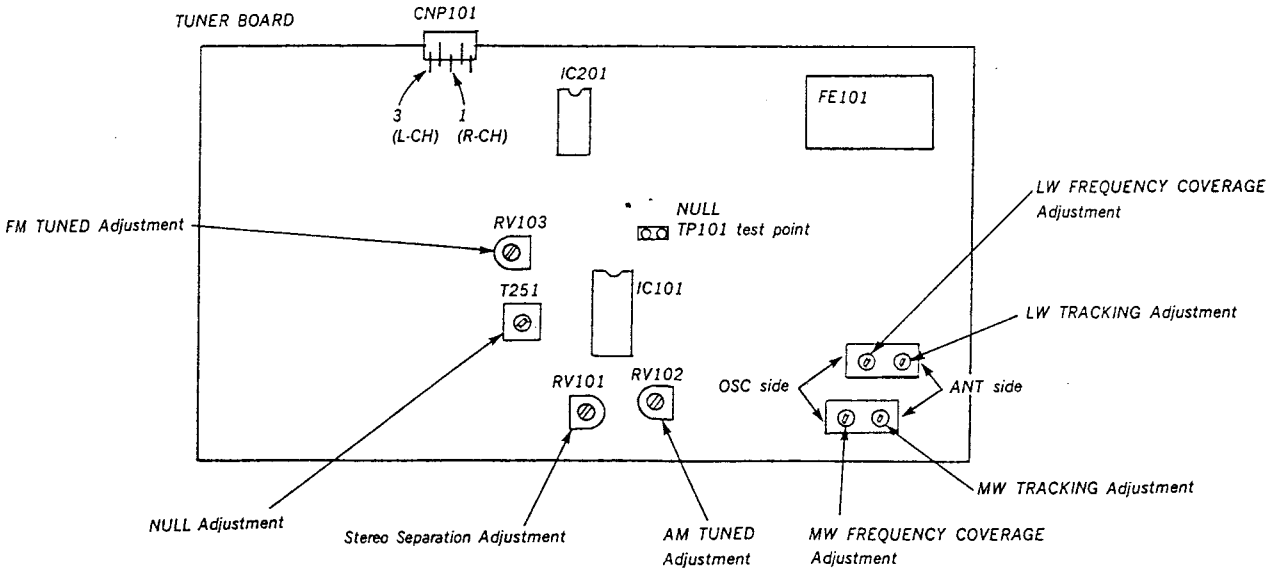
5. Tuned Lighting-on Adjustment

1. Push the TUNING (+, −) button for LW: 281kHz (AEP/UK, WG model) or 288kHz (IT model).
2. Turn RV102 clockwise or counter clockwise and memorize the lighting-up range of tuned indicator.
3. Adjust RV102 at the center of the lighting-up range of both turns as shown below.



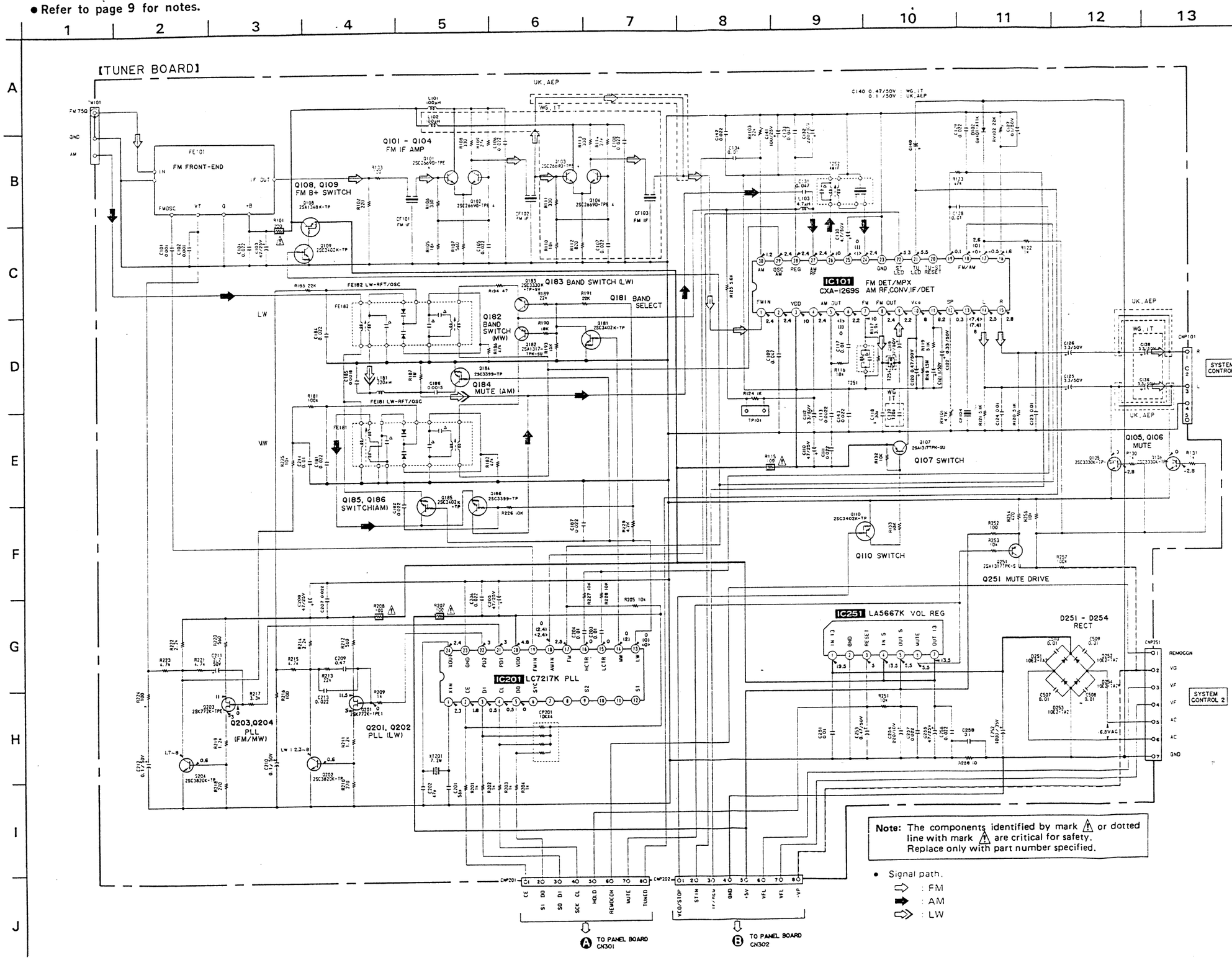
At SSG OUTPUT 68dBμ

Adjustment Location:



3-2. SCHEMFITIC DIAGRAM—TUNER SECTION—

● Refer to page 9 for notes.



Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

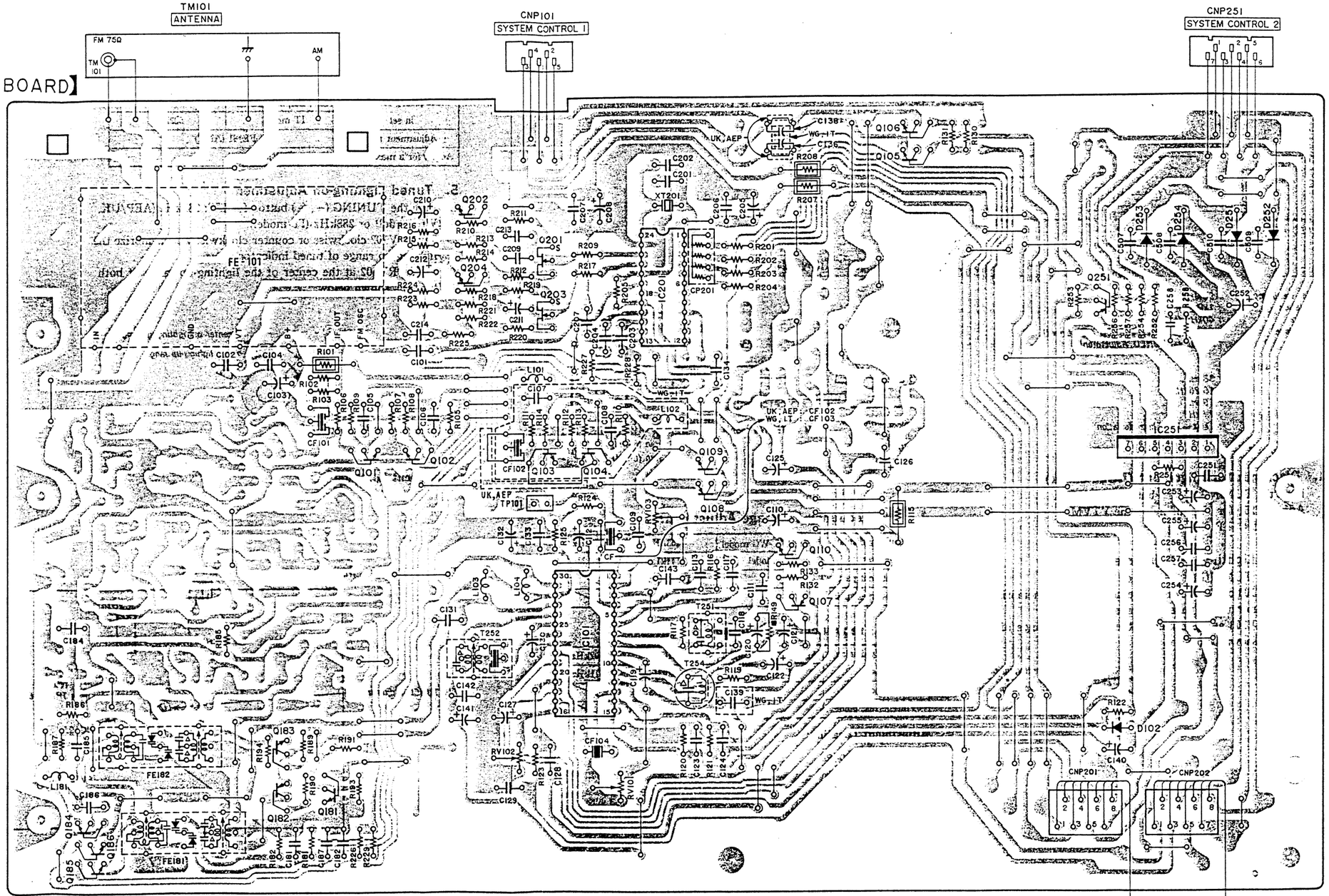
- Signal path.
  - ⇨ : FM
  - ➡ : AM
  - ⇨ : LW

• Semiconductor Location

Ref. No.	Location
D102	F-10
D251	C-11
D252	C-11
D253	C-10
D254	C-10
IC101	F-6
IC201	C-6
IC251	C-10
Q101	D-4
Q102	D-5
Q103	D-5
Q104	D-6
Q105	B-8
Q106	B-8
Q107	E-7
Q108	E-7
Q109	D-7
Q110	E-7
Q181	G-4
Q182	G-3
Q183	F-3
Q184	G-2
Q185	G-2
Q186	G-2
Q201	C-5
Q202	B-5
Q203	C-5
Q204	C-5
Q251	C-10

3-1. PRINTED WIRING BOARD—TUNER SECTION— • Refer to page 10 for Semiconductor Lead Layouts.

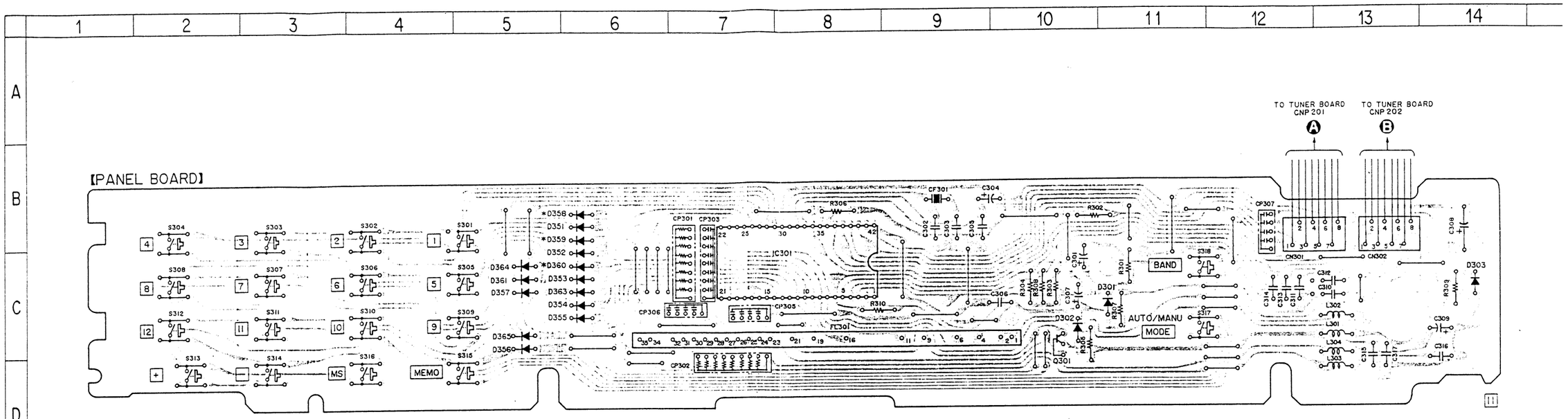
【TUNER BOARD】



Note on Mounting Diagram:

- ○—— : parts extracted from the component side.
- WG: West Germany Model
  IT: Italian Model

3-3. PRINTED WIRING BOARD—Panel section—



Note on Schematic Diagram: tuner section

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- ▬▬ : B+ bus.
- ▬ ▬ ▬ : B− bus.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : MW
  〈 〉 : LW
- Voltages are taken with a VOM (50 kΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- WG: West Germany Model
  IT: Italian Model

Note on Mounting Diagram:

- ○—— : parts extracted from the component side.

	AEP WG UK	IT
D358 A	○	○
D359 B	×	○
D360 C	×	○

- WG: West Germany Model
  IT: Italian Model

• Semiconductor Location

Ref. No.	Location
D301	C-11
D302	C-11
D303	C-13
D351	B-6
D352	C-6
D353	C-6
D354	C-6
D355	C-6
D356	C-6
D357	C-6
D358	B-6
D359	B-6
D360	C-6
D361	C-5
D363	C-6
D364	C-5
D365	C-5
IC301	C-8

Note on Schematic Diagram:

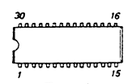
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- Switch

Ref. No.	Switch	Position
S301	PRESET STATIONS 1	OFF
S302	PRESET STATIONS 2	OFF
S303	PRESET STATIONS 3	OFF
S304	PRESET STATIONS 4	OFF
S305	PRESET STATIONS 5	OFF
S306	PRESET STATIONS 6	OFF
S307	PRESET STATIONS 7	OFF
S308	PRESET STATIONS 9	OFF
S309	PRESET STATIONS 9	OFF
S310	PRESET STATIONS 10	OFF
S311	PRESET STATIONS 11	OFF
S312	PRESET STATIONS 12	OFF
S313	TUNING (+)	OFF
S314	TUNING (−)	OFF
S315	MEMORY	OFF
S316	MEMORY SCAN	OFF
S317	AUTO/MANUAL MODE	OFF
S318	BAND	OFF

- WG: West Germany Model
  IT: Italian Model
- Voltages are taken with a VOM (50 kΩ/V).
  Voltage variations may be noted due to normal production tolerances.

• Semiconductor Lead Layouts

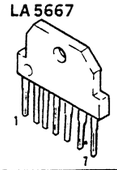
CXA1269S



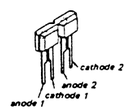
2SA1317SU
2SA1348
2SC2669
2SC3400
2SC3402
2SC3820

GMA01

LA5667



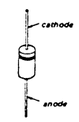
KV1236



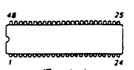
LC7217

2SC2785E

10E2



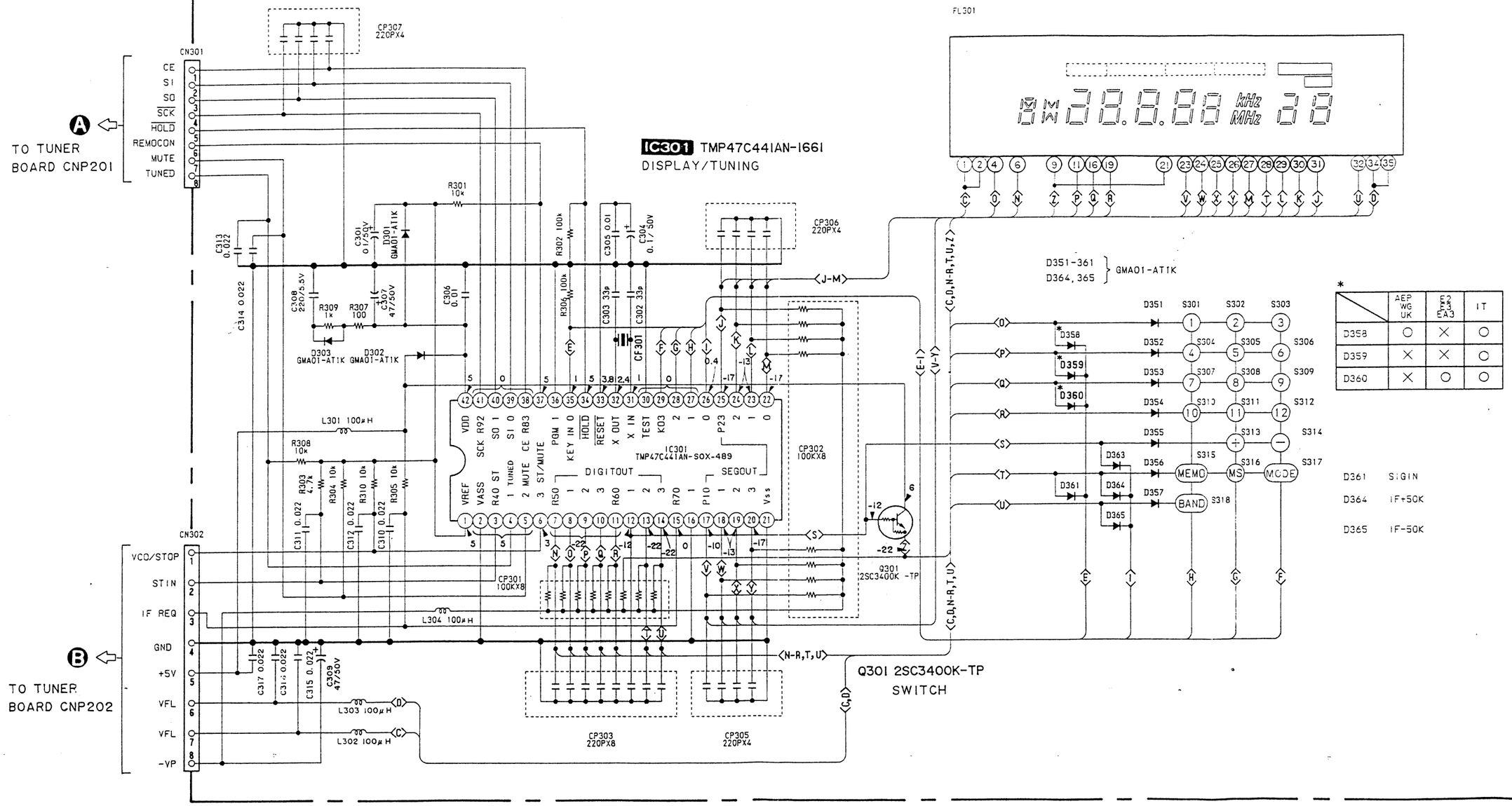
TMP47C441AN-1662



2SK772E

3-4. SCHEMATIC DIAGRAM—Panel section—

【PANEL BOARD】

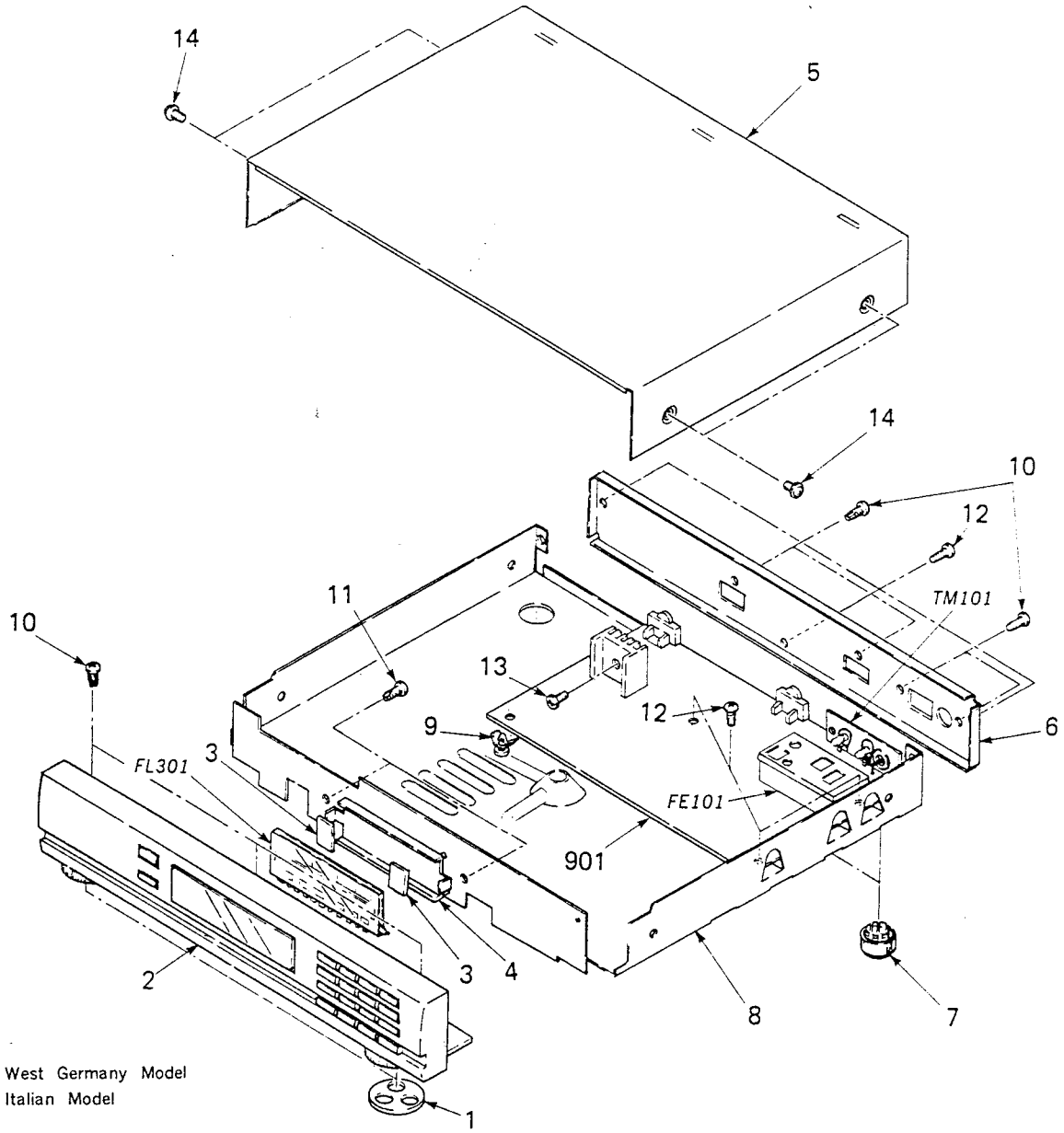


*	AEP WG UK	EEP WG UK EA3	IT
D358	○	×	○
D359	×	×	○
D360	×	○	○

SECTION 4
EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts Color



WG: West Germany Model
IT: Italian Model

Ref.No	Part No.	Description	Remark
1	4-921-906-01	FELT	
2	X-4924-516-1	(AEP,UK, IT) ....PANEL ASSY, FRONT	
	X-4924-518-1	(WG) ....PANEL ASSY, FRONT	
3	*4-921-941-11	CUSHION (FL)	
4	*4-923-103-01	HOLDER, FL TUBE	
5	4-924-514-31	(AEP, UK, IT) ....CASE	
	4-924-514-21	(WG) ....CASE	
6	*4-924-502-01	(AEP, UK, IT) ....PANEL, BACK	
	*4-924-502-11	(WG) ....PANEL, BACK	
7	X-4921-901-1	FOOT ASSY	
8	*4-921-903-41	CHASSIS	

Ref.No	Part No.	Description	Remark
9	*4-835-627-00	FASTENER, (A)	
10	7-685-646-79	SCREW +BVTP 3×8 TYPE N-S	
11	7-685-134-11	SCREW +PTP 2.6×8	
12	7-682-548-04	SCREW +BVTT 3×8 (S)	
13	7-685-647-79	SCREW BVTP 3×10 TYPE2 IT-3	
14	3-704-366-01	SCREW (CASE) (M3X8)	
901	*A-4351-635-A	(AEP, UK) ....MOUNTED PCB, TUNER	
	*A-4351-636-A	(WG, IT) ....MOUNTED PCB, TUNER	
FE101	1-463-963-11	FRONT END (FM 3 GANG)	
FL301	1-519-453-11	INDICATOR TUBE, FLUORESCENT	
TM101	*1-537-138-21	TERMINAL BOARD (ANT)	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

WG: West Germany Model
IT: Italian Model

Ref.No	Part No.	Description			Remark
901	*A-4351-635-A	(AEP, UK) ....MOUNTED PCB, TUNER			
901	*A-4351-636-A	(WG, IT) ....MOUNTED PCB, TUNER			
		CAPACITOR			
C101	1-102-074-00	CERAMIC	0.001MF	10%	50V
C102	1-102-074-00	CERAMIC	0.001MF	10%	50V
C103	1-124-477-11	ELECT	47MF	20%	25V
C104	1-101-005-00	CERAMIC	0.022MF		50V
C105	1-101-005-00	CERAMIC	0.022MF		50V
C106	1-101-005-00	CERAMIC	0.022MF		50V
C107	1-101-005-00	(WG, IT)....CERAMIC	0.022MF		50V
C108	1-101-005-00	(WG, IT)....CERAMIC	0.022MF		50V
C109	1-101-006-00	CERAMIC	0.047MF		50V
C110	1-124-477-11	ELECT	47MF	20%	25V
C111	1-101-005-00	CERAMIC	0.022MF		50V
C112	1-123-382-00	ELECT	3.3MF	20%	50V
C113	1-101-004-00	CERAMIC	0.01MF		50V
C117	1-130-483-00	MYLAR	0.01MF	5%	50V
C118	1-102-962-00	CERAMIC	30PF	5%	50V
C119	1-123-875-11	ELECT	10MF	20%	50V
C120	1-124-902-00	ELECT	0.47MF	20%	50V
C121	1-124-499-11	ELECT	1MF	20%	50V
C122	1-124-252-00	ELECT	0.33MF	20%	50V
C123	1-101-004-00	CERAMIC	0.01MF		50V
C124	1-101-004-00	CERAMIC	0.01MF		50V
C125	1-123-382-00	ELECT	3.3MF	20%	50V
C126	1-123-382-00	ELECT	3.3MF	20%	50V
C127	1-124-463-00	ELECT	0.1MF	20%	50V
C128	1-101-004-00	CERAMIC	0.01MF		50V
C129	1-101-005-00	CERAMIC	0.022MF		50V
C130	1-124-927-11	ELECT	4.7MF	20%	50V
C131	1-101-006-00	CERAMIC	0.047MF		50V
C132	1-124-444-00	ELECT	220MF	20%	10V
C133	1-101-006-00	CERAMIC	0.047MF		50V
C134	1-101-004-00	CERAMIC	0.01MF		50V
C136	1-123-382-00	(WG, IT)....ELECT	3.3MF	20%	50V
C138	1-123-382-00	(WG, IT)....ELECT	3.3MF	20%	50V
C139	1-162-283-31	(WG, IT)....CERAMIC	120PF	10%	50V
C140	1-124-463-00	ELECT	0.1MF	20%	50V
C140	1-124-902-00	(WG, IT)....ELECT	0.47MF	20%	50V
C141	1-124-478-11	ELECT	100MF	20%	25V
C142	1-101-005-00	CERAMIC	0.022MF		50V
C143	1-101-005-00	CERAMIC	0.022MF		50V
C181	1-101-005-00	CERAMIC	0.022MF		50V
C182	1-101-005-00	CERAMIC	0.022MF		50V
C184	1-101-005-00	CERAMIC	0.022MF		50V
C185	1-102-120-00	CERAMIC	0.0018MF	10%	50V
C186	1-161-041-00	CERAMIC	0.0015MF	10%	25V
C187	1-101-005-00	CERAMIC	0.022MF		50V
C201	1-101-884-00	CERAMIC	56PF	5%	50V
C202	1-101-880-00	CERAMIC	47PF	5%	50V
C203	1-101-004-00	CERAMIC	0.01MF		50V

Ref.No	Part No.	Description			Remark
C204	1-101-004-00	CERAMIC	0.01MF		50V
C205	1-124-477-11	ELECT	47MF	20%	25V
C206	1-101-005-00	CERAMIC	0.022MF		50V
C207	1-101-005-00	CERAMIC	0.022MF		50V
C208	1-124-477-11	ELECT	47MF	20%	25V
C209	1-136-173-00	FILM	0.47MF	5%	50V
C210	1-124-463-00	ELECT	0.1MF	20%	50V
C211	1-124-925-11	ELECT	2.2MF	20%	50V
C212	1-124-463-00	ELECT	0.1MF	20%	50V
C213	1-101-005-00	CERAMIC	0.022MF		50V
C214	1-101-004-00	CERAMIC	0.01MF		50V
C215	1-102-973-00	CERAMIC	100PF	5%	50V
C251	1-101-004-00	CERAMIC	0.01MF		50V
C252	1-126-105-11	ELECT	1000MF	20%	35V
C253	1-124-902-00	ELECT	0.47MF	20%	50V
C254	1-124-444-00	ELECT	220MF	20%	10V
C255	1-124-477-11	ELECT	47MF	20%	25V
C256	1-101-005-00	CERAMIC	0.022MF		50V
C257	1-101-005-00	CERAMIC	0.022MF		50V
C258	1-136-165-00	FILM	0.1MF	5%	50V
C301	1-124-463-00	ELECT	0.1MF	20%	50V
C302	1-162-056-00	CERAMIC	33PF	5%	50V
C303	1-162-056-00	CERAMIC	33PF	5%	50V
C304	1-124-463-00	ELECT	0.1MF	20%	50V
C305	1-161-379-00	CERAMIC	0.01MF	30%	16V
C306	1-161-379-00	CERAMIC	0.01MF	30%	16V
C307	1-124-910-11	ELECT	47MF	20%	50V
C308	1-125-486-11		220MF		5.5V
C309	1-124-910-11	ELECT	47MF	20%	50V
C310	1-101-005-00	CERAMIC	0.022MF		50V
C311	1-101-005-00	CERAMIC	0.022MF		50V
C312	1-101-005-00	CERAMIC	0.022MF		50V
C313	1-101-005-00	CERAMIC	0.022MF		50V
C314	1-101-005-00	CERAMIC	0.022MF		50V
C315	1-101-005-00	CERAMIC	0.022MF		50V
C316	1-101-005-00	CERAMIC	0.022MF		50V
C317	1-101-005-00	CERAMIC	0.022MF		50V
C507	1-101-004-00	CERAMIC	0.01MF		50V
C508	1-101-004-00	CERAMIC	0.01MF		50V
C509	1-101-004-00	CERAMIC	0.01MF		50V
C510	1-101-004-00	CERAMIC	0.01MF		50V
CF101	1-567-389-11	FILTER, CERAMIC			
CF102	1-567-389-11	FILTER, CERAMIC			
CF103	1-567-389-11	(WG, IT)....FILER, CERAMIC			
CF104	1-577-075-11	OSCILLATOR, CERAMIC			
CF301	1-577-029-11	VIBRATOR, CERAMIC			
CNP101	*1-566-856-11	SOCKET, CONNECTOR 5P			
CNP201	*1-566-168-11	HOUSING, CONNECTOR 8P			
CNP202	*1-566-168-11	HOUSING, CONNECTOR 8P			
CNP251	1-566-857-11	SOCKET, CONNECTOR 7P			
CNP301	*1-566-168-11	HOUSING, CONNECTOR 8P			

Ref.No	Part No.	Description	Remark
CNP302	*1-566-168-11	HOUSING, CONNECTOR 8P	
CP201	1-233-125-11	COMPOSITION CIRCUIT BLOCK	
CP301	1-233-140-11	COMPOSITION CIRCUIT BLOCK	
CP302	1-233-140-11	COMPOSITION CIRCUIT BLOCK	
CP303	1-233-151-	COMPOSITION CIRCUIT BLOCK	
CP305	1-233-150-	COMPOSITION CIRCUIT BLOCK	
CP306	1-233-150-	COMPOSITION CIRCUIT BLOCK	
CP307	1-233-150-	COMPOSITION CIRCUIT BLOCK	
D102	1-806-937-11	DIODE GMA01	
D251	8-719-200-02	DIODE 10E2	
D252	8-719-200-02	DIODE 10E2	
D253	8-719-200-02	DIODE 10E2	
D254	8-719-200-02	DIODE 10E2	
D301	1-806-937-11	DIODE GMA01	
D302	1-806-937-11	DIODE GMA01	
D303	1-806-937-11	DIODE GMA01	
D351	1-806-937-11	DIODE GMA01	
D352	1-806-937-11	DIODE GMA01	
D353	1-806-937-11	DIODE GMA01	
D354	1-806-937-11	DIODE GMA01	
D355	1-806-937-11	DIODE GMA01	
D356	1-806-937-11	DIODE GMA01	
D357	1-806-937-11	DIODE GMA01	
D358	1-806-937-11	DIODE GMA01	
D359	1-806-937-11	(IT)....DIODE GMA01	
D360	1-806-937-11	(IT)....DIODE GMA01	
D361	1-806-937-11	DIODE GMA01	
D363	1-806-937-11	DIODE GMA01	
D364	1-806-937-11	DIODE GMA01	
D365	1-806-937-11	DIODE GMA01	
FE101	1-463-963-11	FRONT END (FM 3 GANG)	
FE181	1-235-936-11	ENCAPSULATED COMPONENT	
FE182	1-236-178-11	RF BLOCK, LW	
FL301	1-519-453-11	INDICATOR TUBE, FLUORESCENT	
IC101	8-759-805-50	IC CXA1269S	
IC201	8-759-820-10	IC LC7217	
IC251	8-759-820-09	IC LA5667	
IC301	8-759-230-49	IC TMP47C441AN-1662	
L101	1-410-564-41	INDUCTOR	
L102	1-410-564-41	(WG, IT)....INDUCTOR 100UH	
L103	1-408-920-00	INDUCTOR	
L181	1-410-568-21	INDUCTOR	
L301	1-410-564-21	INDUCTOR	
L302	1-410-564-21	INDUCTOR	
L303	1-410-564-21	INDUCTOR	
L304	1-410-564-21	INDUCTOR	
Q101	8-729-266-93	TRANSISTOR 2SC2669	
Q102	8-729-266-93	TRANSISTOR 2SC2669	
Q103	8-729-266-93	(WG, IT)....TRANSISTOR 2SC2669	
Q104	8-729-266-93	(WG, IT)....TRANSISTOR 2SC2669	
Q105	8-729-178-55	TRANSISTOR 2SC2785-E	
Q106	8-729-178-55	TRANSISTOR 2SC2785-E	
Q107	8-729-178-55	TRANSISTOR 2SC2785-E	
Q108	9-986-159-01	TRANSISTOR 2SA1348	
Q109	8-729-806-28	TRANSISTOR 2SC3402	
Q110	8-729-806-28	TRANSISTOR 2SC3402	
Q181	8-729-806-28	TRANSISTOR 2SC3402	
Q182	8-729-820-10	TRANSISTOR 2SA1317-SU	
Q183	8-729-178-55	TRANSISTOR 2SC2785-E	
Q184	8-729-806-28	TRANSISTOR 2SC3402	
Q185	8-729-806-28	TRANSISTOR 2SC3402	
Q186	8-729-806-28	TRANSISTOR 2SC3402	
Q201	8-729-820-12	TRANSISTOR 2SK772-E	
Q202	8-729-820-13	TRANSISTOR 2SC3820	
Q203	8-729-820-12	TRANSISTOR 2SK772-E	
Q204	8-729-820-13	TRANSISTOR 2SC3820	
Q251	8-729-820-10	TRANSISTOR 2SA1317	
Q301	8-729-806-34	TRANSISTOR 2SC3400	

RESISTOR

Ref.No	Part No.	Description				Remark
R101	⚠1-247-704-11	CARBON	220	5%	1/4W	F
R103	1-249-406-11	CARBON	120	5%	1/4W	
R105	1-249-432-11	CARBON	18K	5%	1/4W	
R106	1-249-411-11	CARBON	330	5%	1/4W	
R107	1-249-414-11	CARBON	560	5%	1/4W	
R108	1-249-411-11	CARBON	330	5%	1/4W	
R109	1-249-434-11	CARBON	27K	5%	1/4W	
R110	1-249-432-11	(WG,IT)....CARBON	18K	5%	1/4W	
R111	1-249-411-11	(WG,IT)....CARBON	330	5%	1/4W	
R112	1-249-416-11	(WG,IT)....CARBON	820	5%	1/4W	
R113	1-249-411-11	(WG,IT)....CARBON	330	5%	1/4W	
R114	1-249-434-11	(WG,IT)....CARBON	27K	5%	1/4W	
R115	⚠1-247-700-11	CARBON	100	5%	1/4W	F
R116	1-249-432-11	CARBON	18K	5%	1/4W	
R117	1-249-424-11	CARBON	3.9K	5%	1/4W	
R119	1-215-438-00	CARBON	5.1K	5%	1/4W	
R120	1-215-438-00	CARBON	5.1K	5%	1/4W	
R121	1-215-438-00	CARBON	5.1K	5%	1/4W	
R122	1-249-417-11	CARBON	1K	5%	1/4W	
R123	1-249-437-11	CARBON	47K	5%	1/4W	
R124	1-249-417-11	CARBON	1K	5%	1/4W	
R125	1-249-426-11	CARBON	5.6K	5%	1/4W	
R130	1-249-417-11	CARBON	1K	5%	1/4W	
R131	1-249-417-11	CARBON	1K	5%	1/4W	
R132	1-249-429-11	CARBON	10K	5%	1/4W	
R133	1-249-429-11	CARBON	10K	5%	1/4W	
R149	1-249-747-	CARBON	1.5M	5%	1/4W	
R181	1-249-441-11	CARBON	100K	5%	1/4W	
R182	1-249-437-11	CARBON	47K	5%	1/4W	
R185	1-249-433-11	CARBON	22K	5%	1/4W	
R186	1-249-437-11	CARBON	47K	5%	1/4W	
R187	1-215-493-00	CARBON	1M	5%	1/4W	
R189	1-249-433-11	CARBON	22K	5%	1/4W	
R190	1-249-432-11	CARBON	18K	5%	1/4W	
R191	1-249-433-11	CARBON	22K	5%	1/4W	
R193	1-249-431-11	CARBON	15K	5%	1/4W	
R194	1-249-401-11	CARBON	47	5%	1/4W	
R201	1-249-417-11	CARBON	1K	5%	1/4W	
R202	1-249-417-11	CARBON	1K	5%	1/4W	
R203	1-249-417-11	CARBON	1K	5%	1/4W	
R204	1-249-417-11	CARBON	1K	5%	1/4W	
*R205	1-249-425-11	CARBON	4.7K	5%	1/4W	
R207	⚠1-247-696-11	CARBON	47	5%	1/4W	F
R208	⚠1-247-700-11	CARBON	100	5%	1/4W	F
R209	1-249-425-11	CARBON	4.7K	5%	1/4W	
R210	1-249-410-11	CARBON	270	5%	1/4W	
R211	1-249-418-11	CARBON	1.2K	5%	1/4W	
R212	1-249-414-11	CARBON	560	5%	1/4W	
R213	1-249-433-11	CARBON	22K	5%	1/4W	
R214	1-249-421-11	CARBON	2.2K	5%	1/4W	
R215	1-249-425-11	CARBON	4.7K	5%	1/4W	
R216	1-249-405-11	CARBON	100	5%	1/4W	
R217	1-249-423-11	CARBON	3.3K	5%	1/4W	
R218	1-249-410-11	CARBON	270	5%	1/4W	
R219	1-249-418-11	CARBON	1.2K	5%	1/4W	
R220	1-249-414-11	CARBON	560	5%	1/4W	
R221	1-249-425-11	CARBON	4.7K	5%	1/4W	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description			Remark
R222	1-249-421-11	CARBON	2.2K	5%	1/4W
R223	1-249-425-11	CARBON	4.7K	5%	1/4W
R224	1-249-405-11	CARBON	100	5%	1/4W
R225	1-249-429-11	CARBON	10K	5%	1/4W
R226	1-249-429-11	CARBON	10K	5%	1/4W
R227	1-249-429-11	CARBON	10K	5%	1/4W
R228	1-249-429-11	CARBON	10K	5%	1/4W
R229	1-249-425-11	CARBON	4.7K	5%	1/4W
R251	1-249-429-11	CARBON	10K	5%	1/4W
R252	1-249-405-11	CARBON	100	5%	1/4W
R253	1-249-429-11	CARBON	10K	5%	1/4W
R254	1-249-413-11	CARBON	470	5%	1/4W
R256	1-249-429-11	CARBON	10K	5%	1/4W
R257	1-249-441-11	CARBON	100K	5%	1/4W
R258	1-249-393-11	CARBON	10	5%	1/4W
R301	1-249-429-11	CARBON	10K	5%	1/4W
R302	1-249-441-11	CARBON	100K	5%	1/4W
R303	1-249-425-11	CARBON	4.7K	5%	1/4W
R304	1-249-429-11	CARBON	10K	5%	1/4W
R305	1-249-429-11	CARBON	10K	5%	1/4W
R306	1-249-441-11	CARBON	100K	5%	1/4W
R307	1-249-405-11	CARBON	100	5%	1/4W
R308	1-249-429-11	CARBON	10K	5%	1/4W
R309	1-249-417-11	CARBON	1K	5%	1/4W
R310	1-249-429-11	CARBON	10K	5%	1/4W

RV101	1-228-993-00	RES, ADJ, CARBON 4.7K
RV102	1-228-995-00	RES, ADJ, CARBON 22K
RV103	1-228-995-00	RES, ADJ, CARBON 22K
S301	1-554-303-21	SWITCH, KEY BOARD (1)
S302	1-554-303-21	SWITCH, KEY BOARD (2)
S303	1-554-303-21	SWITCH, KEY BOARD (3)
S304	1-554-303-21	SWITCH, KEY BOARD (4)
S305	1-554-303-21	SWITCH, KEY BOARD (5)
S306	1-554-303-21	SWITCH, KEY BOARD (6)
S307	1-554-303-21	SWITCH, KEY BOARD (7)
S308	1-554-303-21	SWITCH, KEY BOARD (8)
S309	1-554-303-21	SWITCH, KEY BOARD (9)
S310	1-554-303-21	SWITCH, KEY BOARD (10)
S311	1-554-303-21	SWITCH, KEY BOARD (11)
S312	1-554-303-21	SWITCH, KEY BOARD (12)
S313	1-554-303-21	SWITCH, KEY BOARD (+)
S314	1-554-303-21	SWITCH, KEY BOARD (−)
S315	1-554-303-21	SWITCH, KEY BOARD (MEMO)
S316	1-554-303-21	SWITCH, KEY BOARD (MS)
S317	1-554-303-21	SWITCH, KEY BOARD (AUTO/MANU, MODE)
S318	1-554-303-21	SWITCH, KEY BOARD (BAND)
T251	1-404-788-11	TRANSFORMER, DISCRIMINATOR(FM)
T252	1-404-713-11	TRANSFORMER, IF
TM101	*1-537-138-21	TERMINAL BOARD (ANT)
TP101	*1-560-060-00	PIN, CONNECTOR 2P
XT201	1-567-767-11	VIBRATOR, CRYSTAL

ACCESSORIES AND PACKING MATERIALS

Part No.	Description
3-312-970-00	SHEET PROTECTION

9-953-118-11

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Audio Group

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ST-D50L

SONY
SERVICE MANUAL

2772

AEP Model
UK Model

CORRECTION-1

File this correction with the service manual.

☛: Corrected portions

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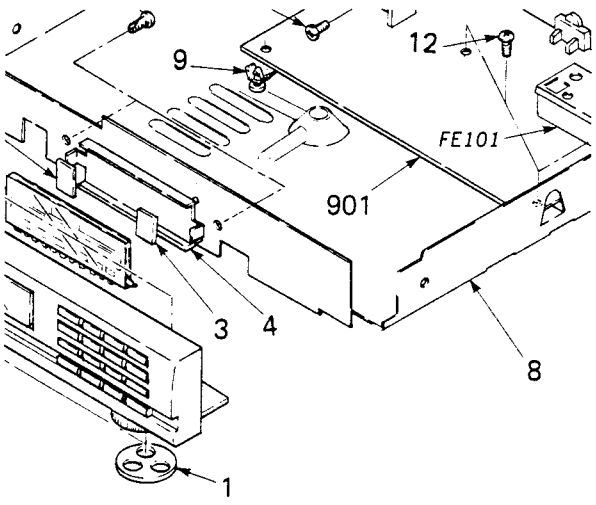

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<tr><td></td><td>*A-4351-636-A</td><td>(WG, IT) ....MOUNTED PCB, TUNER</td><td></td></tr>
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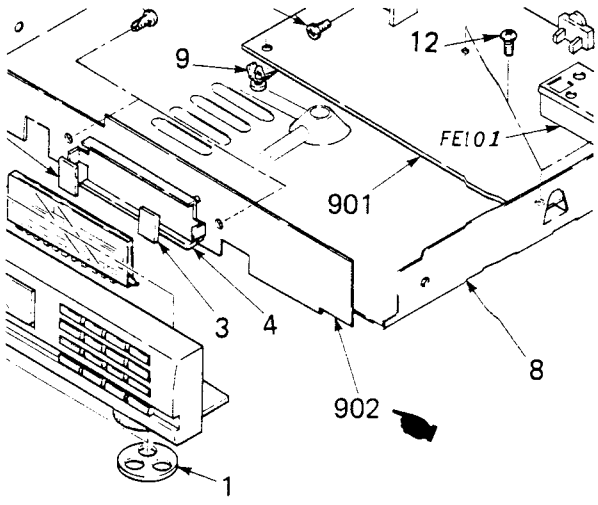

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